

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-28 (Canceled).

Claim 29 (Currently Amended): A mutant, transgenic corn plant comprising a transgene, wherein the transgene is hypomethylated compared to the methylation state of the transgene in a non-mutant transgenic corn plant and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a non-mutant transgenic corn plant.

Claim 30 (Currently Amended): ~~Mutant, transgenic s~~Seed from the mutant, transgenic corn plant of claim 29, wherein said seed comprises ~~[[a]]the~~ transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a non-mutant transgenic corn seed.

Claim 31 (Currently Amended): ~~Progeny mutant, transgenic s~~Seed produced by crossing the mutant transgenic plant of claim 29 and another plant or by self-pollinating the mutant, transgenic corn plant of claim 29, wherein said seed comprises ~~[[a]]the~~ transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a non-mutant transgenic corn seed.

Claim 32 (Original): A tissue culture of regenerable cells of the plant of claim 29.

Claim 33 (Previously Presented): The mutant, transgenic corn plant of claim 29 wherein the higher expression of the transgene is detectable by RNA analytical measurements.

Claim 34 (Currently Amended): The mutant, transgenic corn plant of claim 29 wherein said mutant, transgenic corn plant is selected from the group consisting of *mop1-1*, ~~*mop3-1*~~, *Mop2-1*, *rmr1-1* and *rmr2-1*.

Claims 35 to 80 (Canceled).

Claim 81 (Currently Amended): ~~A mutant~~ corn seed genotypically designated *rmr2-1* having ATCC Accession Number PTA-3956, further comprising a transgene wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *rmr2-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *rmr2-1* mutation.

Claim 82 (Currently Amended): A ~~mutant~~ corn plant produced from the seed of claim 81.

Claim 83 (Currently Amended): A ~~mutant~~ corn plant comprising the *rmr2-1* mutation having all of the genotypic, phenotypic and morphological characteristics of a plant produced from the seed of claim 81, further comprising the transgene wherein said transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *rmr2-1* mutation.

Claim 84 (Original): Pollen or an ovule of the plant of claim 82.

Claim 85 (Currently Amended): A ~~mutant~~ corn plant comprising the *rmr2-1* mutation having the ~~genotypic characteristics~~ of the plant of claim 82, further comprising the transgene wherein said transgene is hypomethylated and the expression of said transgene is at least two-fold

higher as compared to the expression of the transgene in a corn plant not comprising the *rmr2-1* mutation.

Claim 86 (Previously Presented): A population of corn plants produced by growing the seed of the corn plant of claim 82.

Claim 87 (Currently Amended): ~~Mutant, transgenic~~A seed comprising the *rmr2-1* mutation produced from a corn plant comprising the *rmr2-1* mutation produced from mutant corn seed genotypically designated *rmr2-1* and having ATCC Accession Number PTA-3956~~the plant of claim 82,~~ wherein said seed further comprises a transgene, wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *rmr2-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a ~~non-mutant transgenic~~corn seed not comprising the *rmr2-1* mutation.

Claim 88 (Currently Amended): Progeny ~~mutant~~seed comprising the *rmr2-1* mutation produced from crossing the plant of claim 82 with another corn plant or by self-pollinating the plant of claim 82, wherein said seed further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *rmr2-1* mutation.

Claim 89 (Currently Amended): A ~~mutant~~corn plant comprising the *rmr2-1* mutation produced from the seed of claim 88, wherein said plant further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *rmr2-1* mutation.

Claim 90 (Canceled)

Claim 91 (Currently Amended): A tissue culture of regenerable ~~mutant~~ cells comprising the *rmr2-1* mutation of corn plant genotypically designated *rmr2-1*, wherein the tissue culture can regenerate into a plant having all the physiological and morphological characteristics of the corn plant *rmr2-1*, a sample of the seed of said corn plant *rmr2-1* having been deposited under ATCC Accession Number PTA-3956, and wherein the cells further comprise a transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in cells not comprising the *rmr2-1* mutation.

Claim 92 (Original): The tissue culture of claim 91, wherein the regenerable cells comprise cells derived from embryos, immature embryos, meristematic cells, immature tassels, microspores, pollen, leaves, anthers, roots, root tips, silk, flowers, kernels, ears, cobs, husks, or stalks.

Claim 93 (Original): The tissue culture of claim 92, wherein the regenerable cells comprise protoplasts or callus.

Claim 94 (Previously Presented): A corn plant regenerated from the tissue culture of claim 91, wherein said corn plant has all of the genotypic, physiological and morphological characteristics of the corn plant designated *rmr2-1*, a sample of the seed of said corn plant designated *rmr2-1* having been deposited under ATCC Accession Number PTA-3956.

Claim 95 (Currently Amended): A process of producing ~~mutant, transgenic~~ corn seed comprising the *rmr2-1* mutation, comprising self-pollinating a ~~transgenic mutant~~ plant genotypically designated *rmr2-1* and further comprising a transgene or crossing a first ~~transgenic~~ parent corn plant with a second parent corn plant, wherein said first or second corn plant is the ~~mutant~~ corn plant designated *rmr2-1* and further comprising the transgene, a sample of the seed of said ~~mutant~~ corn plant designated *rmr2-1* having been deposited under ATCC Accession No. PTA-

3956, wherein said ~~mutant transgenic~~ seed comprising the *rmr2-1* mutation comprises ~~[[a]]the~~ transgene, wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *rmr2-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a ~~non-mutant transgenic~~ corn seed not comprising the *rmr2-1* mutation.

Claim 96 (Original): The process of claim 95, wherein crossing comprises the steps of:

- (a) planting in pollinating proximity seeds of said first and second corn plants;
 - (b) cultivating the seeds of said first and second corn plants into plants that bear flowers;
 - (c) emasculating the male flowers of said first or second corn plant to produce an emasculated corn plant;
 - (d) allowing cross-pollination to occur between said first and second corn plants;
- and
- (e) harvesting seeds produced on said emasculated corn plant.

Claim 97 (Original): The process of claim 96, further comprising growing said harvested seed to produce a hybrid corn plant.

Claim 98 (Currently Amended): Hybrid ~~mutant, transgenic~~ corn seed comprising the *rmr2-1* mutation produced by the process of claim 95, wherein said seed further comprises ~~[[a]]the~~ transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a ~~non-mutant transgenic~~ corn seed not comprising the *rmr2-1* mutation.

Claim 99 (Currently Amended): A hybrid ~~mutant, transgenic~~-corn plant comprising the *rmr2-1* mutation produced by the process of claim 97, wherein said plant further comprises [[a]]the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a ~~non-mutant transgenic~~-corn plant not comprising the *rmr2-1* mutation.

Claims 100 to 120 (Canceled).

Claim 121 (Currently Amended): ~~A Mutant~~-corn seed genotypically designated *Mop2-1* having ATCC Accession Number PTA-4030, further comprising a transgene wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *Mop2-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *Mop2-1* mutation.

Claim 122 (Currently Amended): A ~~mutant~~-corn plant produced from the seed of claim 121.

Claim 123 (Currently Amended): A ~~mutant~~-corn plant comprising the *Mop2-1* mutation having all of the genotypic, phenotypic and morphological characteristics of a plant produced from the seed of claim 121, further comprising the transgene wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *Mop2-1* mutation.

Claim 124 (Original): Pollen or an ovule of the plant of claim 122.

Claim 125 (Currently Amended): A ~~mutant~~-corn plant comprising the *Mop2-1* mutation having the ~~genotypic characteristics~~ of the plant of claim 122, further comprising the transgene

wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *Mop2-1* mutation.

Claim 126 (Previously Presented): A population of corn plants produced by growing the seed of the corn plant of claim 122.

Claim 127 (Currently Amended): ~~Mutant, transgenic~~ A seed comprising the *Mop2-1* mutation produced from a corn plant comprising the *Mop2-1* mutation produced from corn seed genotypically designated *Mop2-1* having ATCC Accession Number PTA-4030~~the plant of claim 122,~~ wherein said seed further comprises a transgene, wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *Mop2-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a ~~non-mutant transgenic~~ corn seed not comprising the *Mop2-1* mutation.

Claim 128 (Currently Amended): Progeny ~~mutant, transgenic~~ seed comprising the *Mop2-1* mutation produced from crossing the plant of claim 122 with another transgenic corn plant or by self-pollinating the plant of claim 122, wherein said seed further comprises ~~[[a]]~~ the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a ~~non-mutant transgenic~~ corn seed not comprising the *Mop2-1* mutation.

Claim 129 (Currently Amended): A ~~mutant, transgenic~~ corn plant comprising the *Mop2-1* mutation produced from the seed of claim 128, wherein said plant further comprises ~~[[a]]~~ the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a ~~non-mutant transgenic~~ corn plant not comprising the *Mop2-1* mutation.

Claim 130 (Canceled)

Claim 131 (Currently Amended): A tissue culture of regenerable ~~mutant~~, ~~transgenic~~ cells comprising the *Mop2-1* mutation of a corn plant genotypically designated *Mop2-1*, wherein the tissue culture can regenerate into a plant having all the physiological and morphological characteristics of the corn plant *Mop2-1*, a sample of the seed of said corn plant *Mop2-1* having been deposited under ATCC Accession Number PTA-4030, and wherein the cells further comprise a transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in cells not comprising the *Mop2-1* mutation.

Claim 132 (Original): The tissue culture of claim 131, wherein the regenerable cells comprise cells derived from embryos, immature embryos, meristematic cells, immature tassels, microspores, pollen, leaves, anthers, roots, root tips, silk, flowers, kernels, ears, cobs, husks, or stalks.

Claim 133 (Original): The tissue culture of claim 132, wherein the regenerable cells comprise protoplasts or callus.

Claim 134 (Previously Presented): A corn plant regenerated from the tissue culture of claim 131, wherein said corn plant has all of the physiological and morphological characteristics of the corn plant designated *Mop2-1*, a sample of the seed of said corn plant designated *Mop2-1* having been deposited under ATCC Accession Number PTA-4030.

Claim 135 (Currently Amended): A process of producing ~~mutant~~ corn seed comprising the *Mop2-1* mutation, comprising self-pollinating a ~~mutant~~ plant genotypically designated *Mop2-1* or

crossing a first parent corn plant with a second parent corn plant, wherein said first or second corn plant is the ~~mutant~~ corn plant designated *Mop2-1*, and further comprising a transgene a sample of the seed of said ~~mutant~~ corn plant designated *Mop2-1* having been deposited under ATCC Accession No. PTA-4030 wherein said seed comprising the *Mop2-1* mutation comprises the transgene, wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *Mop2-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *Mop2-1* mutation.

Claim 136 (Original): The process of claim 135, wherein crossing comprises the steps of:

- (a) planting in pollinating proximity seeds of said first and second corn plants;
 - (b) cultivating the seeds of said first and second corn plants into plants that bear flowers;
 - (c) emasculating the male flowers of said first or second corn plant to produce an emasculated corn plant;
 - (d) allowing cross-pollination to occur between said first and second corn plants;
- and
- (e) harvesting seeds produced on said emasculated corn plant.

Claim 137 (Original): The process of claim 136, further comprising growing said harvested seed to produce a hybrid corn plant.

Claim 138 (Currently Amended): Hybrid ~~mutant~~ corn seed comprising the *Mop2-1* mutation produced by the process of claim 135, wherein said seed further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *Mop2-1* mutation.

Claim 139 (Currently Amended): A hybrid corn plant comprising the *Mop2-1* mutation produced by the process of claim 137, wherein said plant further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *Mop2-1* mutation.

Claims 140 to 340 (Canceled).

Claim 341 (Currently Amended): ~~A mutant~~ corn seed genotypically designated *rmr1-1* having ATCC Accession Number PTA-3965, further comprising a transgene wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *rmr1-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *rmr1-1* mutation.

Claim 342 (Currently Amended): A ~~mutant~~ corn plant produced from the seed of claim 341.

Claim 343 (Currently Amended): A ~~mutant~~ corn plant comprising the *rmr1-1* mutation having all of the genotypic, phenotypic and morphological characteristics of a plant produced from the seed of claim 341, further comprising the transgene wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *rmr1-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *rmr1-1* mutation.

Claim 344 (Original): Pollen or an ovule of the plant of claim 342.

Claim 345 (Currently Amended): A ~~mutant, transgenic~~ corn plant comprising the *rmr1-1* mutation having the genotype characteristics of the plant of claim 342, further comprising the

transgene wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *rmr1-1* mutation.

Claim 346 (Previously Presented): A population of corn plants produced by growing the seed of the corn plant of claim 342.

Claim 347 (Currently Amended): ~~Mutant, transgenic~~ A seed comprising the *rmr1-1* mutation produced from a corn plant comprising the *rmr1-1* mutation produced from mutant corn seed genotypically designated *rmr1-1* having ATCC Accession Number PTA-3965~~the plant of claim 82,~~ wherein said seed further comprises a transgene, wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *rmr1-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a ~~non-mutant transgenic~~ corn seed not comprising the *rmr1-1* mutation.

Claim 348 (Currently Amended): Progeny ~~mutant~~ seed comprising the *rmr1-1* mutation produced from crossing the plant of claim 342 with another corn plant or by self-pollinating the plant of claim 342, wherein said seed further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *rmr1-1* mutation.

Claim 349 (Currently Amended): A ~~mutant, transgenic~~ corn plant comprising the *rmr1-1* mutation produced from the seed of claim 348, wherein said plant further comprises ~~[[a]]~~the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a ~~non-mutant transgenic~~ corn plant not comprising the *rmr1-1* mutation.

Claim 350 (Canceled)

Claim 351 (Currently Amended): A tissue culture of regenerable ~~mutant~~, ~~transgenic~~ cells comprising the *rmr1-1* mutation of corn plant genotypically designated *rmr1-1*, wherein the tissue culture can regenerate into a plant having all the physiological and morphological characteristics of the corn plant *rmr1-1*, a sample of the seed of said corn plant *rmr1-1* having been deposited under ATCC Accession Number PTA-3965, and wherein the cells further comprise a transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in cells not comprising the *rmr1-1* mutation.

Claim 352 (Original): The tissue culture of claim 351, wherein the regenerable cells comprise cells derived from embryos, immature embryos, meristematic cells, immature tassels, microspores, pollen, leaves, anthers, roots, root tips, silk, flowers, kernels, ears, cobs, husks, or stalks.

Claim 353 (Original): The tissue culture of claim 352, wherein the regenerable cells comprise protoplasts or callus.

Claim 354 (Previously Presented): A corn plant regenerated from the tissue culture of claim 351, wherein said corn plant has all of the physiological and morphological characteristics of the corn plant designated *rmr1-1*, a sample of the seed of said corn plant designated *rmr1-1* having been deposited under ATCC Accession Number PTA-3965.

Claim 355 (Currently Amended): A process of producing ~~mutant~~ corn seed comprising the *rmr1-1* mutation, comprising self-pollinating a ~~mutant~~ plant genotypically designated *rmr1-1* or crossing a first parent corn plant with a second parent corn plant, wherein said first or second corn

plant is the ~~mutant~~ corn plant designated *rmr1-1* and further comprising a transgene, a sample of the seed of said ~~mutant~~ corn plant designated *rmr1-1* having been deposited under ATCC Accession No. PTA-3965 wherein said seed comprises the transgene, wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *rmr1-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *rmr1-1* mutation.

Claim 356 (Original): The process of claim 355, wherein crossing comprises the steps of:

- (a) planting in pollinating proximity seeds of said first and second corn plants;
 - (b) cultivating the seeds of said first and second corn plants into plants that bear flowers;
 - (c) emasculating the male flowers of said first or second corn plant to produce an emasculated corn plant;
 - (d) allowing cross-pollination to occur between said first and second corn plants;
- and
- (e) harvesting seeds produced on said emasculated corn plant.

Claim 357 (Original): The process of claim 356, further comprising growing said harvested seed to produce a hybrid corn plant.

Claim 358 (Currently Amended): Hybrid ~~mutant~~ corn seed comprising the *rmr1-1* mutation produced by the process of claim 355, wherein said seed further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *rmr1-1* mutation.

Claim 359 (Currently Amended): A hybrid ~~mutant~~-corn plant comprising the *rmr1-1* mutation produced by the process of claim 357, wherein said plant further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *rmr1-1* mutation.

Claims 360 to 380 (Canceled).

Claim 381 (New): A corn seed genotypically designated *mop1-1* having ATCC Accession Number PTA3828, further comprising a transgene wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *mop1-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *mop1-1* mutation.

Claim 382 (New): A corn plant produced from the seed of claim 381.

Claim 383 (New): A corn plant comprising the *mop1-1* mutation having all of the genotypic, phenotypic and morphological characteristics of a plant produced from the seed of claim 381, further comprising the transgene wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *mop1-1* mutation.

Claim 384 (New): Pollen or an ovule of the plant of claim 382.

Claim 385 (New): A corn plant comprising the *mop1-1* mutation having the genotype of the plant of claim 382, further comprising the transgene wherein the transgene is hypomethylated and

the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *mop1-1* mutation.

Claim 386 (New): A population of corn plants produced by growing the seed of the corn plant of claim 382.

Claim 387 (New): A seed comprising the *mop1-1* mutation produced from a corn plant comprising the *mop1-1* mutation produced from mutant corn seed genotypically designated *mop1-1* and having ATCC Accession Number PTA3828, wherein said seed further comprises a transgene, wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *mop1-1* mutation and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *mop1-1* mutation.

Claim 388 (New): Progeny seed comprising the *mop1-1* mutation produced from crossing the plant of claim 382 with another corn plant or by self-pollinating the plant of claim 382, wherein said seed further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *mop1-1* mutation.

Claim 389 (New): A corn plant comprising the *mop1-1* mutation produced from the seed of claim 388, wherein said plant further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *mop1-1* mutation.

Claim 390 (New): A tissue culture of regenerable cells comprising the *mop1-1* mutation of corn plant genotypically designated *mop1-1*, wherein the tissue culture can regenerate into a plant having all the physiological and morphological characteristics of the corn plant *mop1-1*, a sample of the seed of said corn plant *mop1-1* having ATCC Accession Number PTA3828 and wherein the cells further comprise a transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in cells not comprising the *mop1-1* mutation.

Claim 391 (New): The tissue culture of claim 390, wherein the regenerable cells comprise cells derived from embryos, immature embryos, meristematic cells, immature tassels, microspores, pollen, leaves, anthers, roots, root tips, silk, flowers, kernels, ears, cobs, husks, or stalks.

Claim 392 (New): The tissue culture of claim 391, wherein the regenerable cells comprise protoplasts or callus.

Claim 393 (New): A corn plant regenerated from the tissue culture of claim 390, wherein said corn plant has all of the physiological and morphological characteristics of the corn plant designated *mop1-1*, a sample of the seed of said corn plant designated *mop1-1* having ATCC Accession Number PTA3828.

Claim 394 (New): A process of producing corn seed comprising the *mop1-1* mutation, comprising self-pollinating a plant genotypically designated *mop1-1* or crossing a first parent corn plant with a second parent corn plant, wherein said first or second corn plant is the corn plant designated *mop1-1* and further comprising a transgene, a sample of the seed of said corn plant designated *mop1-1* having ATCC Accession Number PTA3828, wherein said seed comprises the transgene, wherein the transgene is hypomethylated compared to the methylation state of the transgene in a corn seed not comprising a *mop1-1* mutation and the expression of said transgene is

at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *mop1-1* mutation.

Claim 395 (New): The process of claim 394, wherein crossing comprises the steps of:

- (a) planting in pollinating proximity seeds of said first and second corn plants;
 - (b) cultivating the seeds of said first and second corn plants into plants that bear flowers;
 - (c) emasculating the male flowers of said first or second corn plant to produce an emasculated corn plant;
 - (d) allowing cross-pollination to occur between said first and second corn plants;
- and
- (e) harvesting seeds produced on said emasculated corn plant.

Claim 396 (New): The process of claim 395, further comprising growing said harvested seed to produce a hybrid corn plant.

Claim 397 (New): Hybrid corn seed comprising the *mop1-1* mutation produced by the process of claim 394, wherein said seed further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn seed not comprising the *mop1-1* mutation.

Claim 398 (New): A hybrid corn plant comprising the *mop1-1* mutation produced by the process of claim 396, wherein said plant further comprises the transgene, wherein the transgene is hypomethylated and the expression of said transgene is at least two-fold higher as compared to the expression of the transgene in a corn plant not comprising the *mop1-1* mutation.